

Customer Name: Theraplant, LLC  
Customer Address: 856 Echo Lake Road  
Watertown, CT 06795  
Phone Number: 860-417-6481

Sample ID: 84120114-1 (Lot 12 Extract)

Results issued on: 12/3/2014

COA No. 1024-A

### Quality Control Analysis

| <u>Test</u>         | <u>Specification</u>                                    | <u>Results</u><br><u>(Pass/Fail)</u> |
|---------------------|---|--------------------------------------|
| <b>Microbiology</b> | Total Aerobic Microbial Count (< 2K CFU/g)              | Pass                                 |
|                     | Total Yeast and Mold Count (< 200 CFU/g)                | Pass                                 |
|                     | Bile-tolerant Gram-negative Bacteria ( <b>absence</b> ) | Pass                                 |
|                     | <i>Staph. aureus</i> ( <b>absence</b> )                 | Pass                                 |
|                     | <i>Pseud. aeruginosa</i> ( <b>absence</b> )             | Pass                                 |
| <b>Mycotoxins</b>   | Aflatoxin B1 (< 20 ug/Kg)                               | Pass                                 |
|                     | Aflatoxin B2 (< 20 ug/Kg)                               | Pass                                 |
|                     | Aflatoxin G1 (< 20 ug/Kg)                               | Pass                                 |
|                     | Aflatoxin G1 (< 20 ug/Kg)                               | Pass                                 |
|                     | Ochratoxin A (< 20 ug/Kg)                               | Pass                                 |
| <b>Heavy Metals</b> | Arsenic - As (< 4.206 ug/g)                             | Pass                                 |
|                     | Cadmium - Cd (< 2.704 ug/g)                             | Pass                                 |
|                     | Mercury - Hg (< 8.712 ug/g)                             | Pass                                 |
|                     | Lead - Pb (< 8.712 ug/g)                                | Pass                                 |
| <b>Pesticides</b>   | <i>See attachment A</i>                                 | Pass                                 |

## Cannabinoid Analysis

### *Via Gas Chromatography (GC) Analysis*

| Cannabinoid   | Percent by Weight (w/w) |
|---|-------------------------|
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC) |                         |
| Cannabidiol (CBD)                                   |                         |
| Cannabigerol (CBG)                                  |                         |
| Cannabinol (CBN)                                    |                         |

### *Via High Performance Liquid Chromatography (HPLC) Analysis*

| Cannabinoid  | Percent by Weight (w/w) |
|--|-------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 49.02%                  |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 24.79%                  |
| Cannabidiol Acid (CBD-A)                                   | 0.95%                   |
| Cannabidiol (CBD)  | 0.21%                   |
| Cannabigerol Acid (CBG-A)                                  | < 0.10%                 |
| Cannabigerol (CBG)   | 0.62%                   |
| Cannabinol (CBN)   | 0.23%                   |
| Cannabichromene (CBC)                                      | 0.55%                   |

## **Terpenoid Analysis**

*Via Gas Chromatography Mass Spectrometry (GC-MS) Analysis*

| Terpene                | Percent by Weight (w/w) |
|------------------------|-------------------------|
| $\alpha$ -Pinene       | 0.026%                  |
| $\beta$ -Pinene        | 0.031%                  |
| Limonene               | 0.078%                  |
| $\beta$ -Myrcene       | 0.343%                  |
| $\beta$ -Caryophyllene | 0.471%                  |
| Humulene               | 0.179%                  |



Results Approved by: Jose A. Zavaleta, Director

## Attachment A

| Pesticide                         | Residue limits according to EPA<br>in parts per billion (ppb) | Results |
|-----------------------------------|---|---------|
| Avermectin (abamectin)            | < 10  | Pass    |
| Acequinocyl                       | < 20  | Pass    |
| Bifenazate                        | < 100   | Pass    |
| Bifenthrin (synthetic pyrethroid) | < 50  | Pass    |
| Cyfluthrin (synthetic pyrethroid) | < 20  | Pass    |
| Etoxazole                         | < 10  | Pass    |
| Imazalil                          | < 100   | Pass    |
| Imidacloprid                      | < 50  | Pass    |
| Myclobutanil                      | < 20  | Pass    |
| Paclobutrazol                     | < 400   | Pass    |
| Pyrethrins (synthetic)            | < 50  | Pass    |
| Spinosad                          | < 10  | Pass    |
| Spiromesifen                      | < 20  | Pass    |
| Spirotetramat                     | < 200   | Pass    |
| Trifloxystrobin                   | < 50  | Pass    |